

01482530 MAJOR RUN AT SHARPTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°38'56", long 75°22'28" referenced to North American Datum of 1983, Pilesgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Kings Highway (County Route 620), 0.4 mi upstream from mouth, and 0.7 mi southwest of Sharptown.

DRAINAGE AREA.--3.04 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1966-72, 1974-75. Miscellaneous measurements, water years 2003-08.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Date	Discharge, in ft³/s
Oct 15, 2007	0.60
Dec 3, 2007	5.14
Feb 6, 2008	1.69
Mar 10, 2008	5.35
Apr 7, 2008	2.23
Apr 29, 2008	1.74
May 28, 2008	1.83
May 29, 2008	1.65
Jul 2, 2008	0.44
Jul 30, 2008	0.68
Aug 14, 2008	0.73
Aug 18, 2008	0.55

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001-02, 2007 to current year.

PERIOD OF DAILY RECORD.--July and August 2008.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value; pH, 0.3 units (+or-). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data from the following period(s) were adjusted - SPECIFIC CONDUCTANCE: July 1-8 and Aug. 20-25; DISSOLVED OXYGEN: Aug. 20-25; pH: Aug. 20-25.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of carbonaceous biochemical oxygen demand and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 2

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 corrcd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Residue on evap. at 180degC wat flt mg/L (70300)
Oct													
15...	1310	.60	50	768	9.0	92	7.3	380	17.5	16.0	99	35.6	229
Feb													
06...	1115	1.7	140	752	10.1	88	7.1	320	17.5	9.5	69	29.3	188
Apr													
07...	1150	2.2	27	768	11.7	105	8.5	339	--	10.7	78	35.9	205
29...	1115	1.7	23	755	8.3	83	7.6	380	12.0	15.3	104	34.6	251
May													
28...	1130	1.8	29	767	5.9	66	7.3	325	17.0	21.0	85	26.6	199
Jul													
02...	1210	.44	38	760	2.5	31	7.0	345	29.0	25.1	90	33.1	214
30...	1400	.68	19	760	4.2	52	7.2	295	30.0	27.1	72	24.6	199
Aug													
14...	1100	.73	50	752	7.0	81	7.2	287	28.5	22.9	72	23.7	171

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 2

[Remark codes: <, less than; E, estimated.]

Date	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Total nitro- gen, water, unfltrd mg/L (00600)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Organic carbon, water, unfltrd mg/L (00680)	CBOD, water, unfltrd 5 day, mg/L (80082)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Pheo- phytin a, phyto- plank- ton, µg/L (62360)	Boron, water, unfltrd recover- able, µg/L (01022)	Iron, water, unfltrd recover- able, µg/L (01045)
Oct													
15...	85	1.7	.120	.252	2.0	.036	.43	11.4	E1.8	43.2	19.2	29	3,740
Feb													
06...	70	2.2	.561	3.03	5.2	.03	.49	8.6	E1.3	E25.7	E21.9	12	3,770
Apr													
07...	27	1.1	<.020	1.06	2.1	<.02	.16	7.4	E1.9	83.5	22.0	14	1,720
29...	36	1.3	.153	.10	1.4	.04	.28	7.2	<1.0	31.3	14.8	19	2,480
May													
28...	30	1.2	.249	1.30	2.5	.05	.20	7.0	<1.0	23.1	19.6	24	1,770
Jul													
02...	35	2.3	.490	.38	2.7	.09	.36	16.1	E1.8	54.0	47.2	18	2,960
30...	13	1.4	.275	.46	1.9	.08	.20	11.1	E2.0	32.4	30.8	27	1,420
Aug													
14...	39	1.2	.099	.53	1.7	.04	.25	12.2	E1.1	52.4	20.1	21	2,450

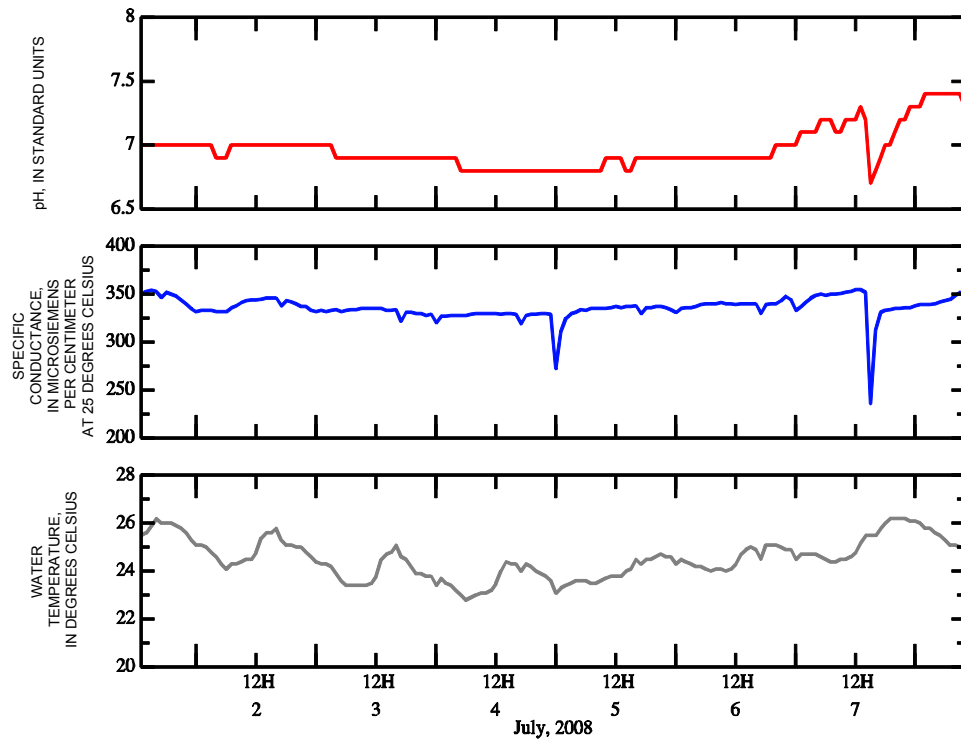
WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[QC, quality control sample]

Date	Time	Sample medium and type	Phos- phorus, bed sedimnt total, mg/kg as P (00668)
Jul			
30...	1400	Bottom material, replicate	860
30...	1401	QC - Bottom material, split replicate	1,000
Aug			
19...	1010	Bottom material, regular	1,000

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HOURLY WATER-QUALITY-MONITOR VALUES
JULY 1, 2008 TO JULY 8, 2008



01482530 MAJOR RUN AT SHARPTOWN, NJ—Continued

HOURLY WATER-QUALITY-MONITOR VALUES
AUGUST 20, 2008 TO AUGUST 25, 2008

